

skilled in the art, it is the intention of the inventors to embody within the patent warranted hereon all changes and modifications as reasonably and properly come within the scope of their contribution to the art.--.

IN THE CLAIMS

5 On substitute page 18, line 1, change "Patent Claims" to --We Claim:--.

Amend claim 1 as follows:

1. (Amended) A method [Method] for [the] transmission of information in various carrier frequencies with [a] frequency hopping [method], comprising the following steps:

10 offering a table [(25)] with a plurality of n possible carrier frequency value f_x in addresses 1 through N of the table [(25)];

generating [(22)] a sequence of random values;

reading out at least a part M of the N carrier frequency values f_x from [the] corresponding addresses of the table [(25)] on [the] a basis of the

15 generated sequence of random values, [whereby] $M \leq N$; and

transmitting [(4, 6)] information in the corresponding carrier frequencies, [whereby]

implementing the following steps [are implemented] for [the] setup of a connection:

20 sampling [(26)] a carrier frequency;

deciding [(27)] whether a message containing at least an initialization information was received on this carrier frequency during a specific time span;

when the [decision] deciding step is negative, selecting a new carrier frequency and sampling [this] said new carrier frequency; and

25 when the deciding step [decision] is positive, generating [(30)] the sequence of random values upon employment of the initialization information.

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2.(Amended) A method [Method] according to claim 1, further comprising the step of: [characterized in that]
converting the generated sequence of random values [is converted] into address values between 1 and N with which the carrier frequency values are read from the table [(25)].

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3.(Amended) A method [Method] according to claim 1 [or 2], comprising [characterized in that] the following steps; [are implemented for the]
implementing a synchronization including the steps of:
sampling [(26)] a carrier frequency;
10 deciding [(27)] whether a message was received on [this] said carrier frequency during a specific time span;
when the [decision] deciding step is negative, selecting a new carrier frequency and sampling said [this] new carrier frequency;
when the [decision] deciding step is positive, generating [(30)] the sequence of
15 random values upon employment of the message.

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4.(Amended) A method [Method] according to claim 1, further comprising the steps of: [one of the preceding claims, characterized in that]
reading out a part M of the N possible carrier frequency values [is read out] from the table [(25)], [whereby the] employing remaining N-M carrier
20 frequency values [are employed] for replacing disturbed carrier frequency values of the M carrier frequency values.

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5.(Amended) A method [Method] according to claim 4, further comprising the step of: [characterized in that the table (25) is updated (31)]
updating from the N-M carrier frequency values before the read-out upon

replacement of the carrier frequency values that correspond to disturbed carrier frequencies.

6.(Amended) An apparatus [Apparatus] for [the] transmission of information in various carrier frequencies with a frequency hopping method, comprising;

[a means (23) for offering] a table [(25)] with a plurality of n possible carrier frequency value f_x in addresses 1 through N of the table [(25)];

a random value generator [a means (22)] for generating a sequence of random values;

a means [(23)] for reading out at least a part M of the N carrier frequency values f_x from [the] corresponding addresses of the table [(25)] on [the] a basis of the generated sequence of random values, [whereby] $M \leq N$; and

transmitting apparatus [a means (4, 6)] for transmitting information in the corresponding carrier frequencies, [whereby]

a means for [the] setup [for the setup *[sic]*] of a connection includes [is provided that comprises]:

means [(26)] for sampling a carrier frequency;

means [(27)] for deciding whether a message containing at least an initialization information was received on said [this] carrier

frequency during a specific time span [;] configured such that, when the decision is negative, a new carrier frequency is selected and said [this] new carrier frequency is sampled, and, when the decision is positive, the sequence of random values is generated upon employment of at least the initialization information.

7.(Amended) An apparatus [Apparatus] according to claim 6, further comprising: [characterized by]

a means for converting the generated sequence of random values into address values between 1 and N with which the carrier frequency values are read from the table [(25)].

8.(Amended) An apparatus [Apparatus] according to claim 6 [or 7], further comprising: [characterized in that]

a means for synchronization including [is provided that comprises]:

means [(26)] for sampling a carrier frequency;

means [(27)] for deciding whether a message containing at least an initialization information was received on said [this] carrier frequency during a specific time span [,] configured such that, when the decision is negative, a new carrier frequency is selected and said [this] new carrier frequency is sampled, and, when the decision is positive, the sequence of random values is generated upon employment of at least the initialization information.

9. (Amended) An apparatus [Apparatus] according to claim [one of the claims] 6 [through 8], wherein [characterized in that] the means [(31)] for readout reads a part M of the N possible carrier frequency values from the table, [whereby] the remaining N-M carrier frequency values being [are] employed for replacing disturbed carrier frequency values of the M carrier frequency values.

10. (Amended) An apparatus [Apparatus] according to claim 9, [characterized by] a means [(32)] for updating that updates the table from the N-M carrier frequency values before the readout upon replacement of the carrier